LANDSCAPE MANAGEMENT
SERVING GOLF AND LANDSCAPE PROFESSIONALS
JULY 1990

PART 2

POCKET GUIDE

TURFSEED

For a vari

QUALITY PICKSEED® TURFGRASS PRODUCTS

Fiesta II
Perennial Ryegrass

This advance generation turf-type perennial ryegrass is setting new standards for quality, color, and performance. Its dark green color, fine leaf texture, and environmental tolerance gives you beautiful and functional results, while its high seed count stretches your grass seed dollar. Use Fiesta II straight or in Futura 2000 where it is blended with Blazer II and Dasher II perennial ryegrasses. A genetically superior combination for perennial turf in the North and overseeding in the South.

Banff
Kentucky Bluegrass

Banff is a vigorous dwarf variety that was discovered on the Banff Springs Golf Course in Alberta, Canada. There, Banff survived twenty years of continual heavy watering, repeated attacks from snow mold, and close mowing on a putting green. Just imagine what it could do for you. Banff establishes quickly and forms a disease resistant, cold tolerant, dark green turf.

Touchdown
KENTUCKY BLUEGRASS

Since Touchdown's discovery by the late Tom Rewinsky on the National Golf Links of America on Long Island, this elite bluegrass has become the top choice of sod producers. Its aggressive growth habit and rapid establishment crowds out weeds and Poa annua while developing an even, dark green turf.

Mustang
TURF-TYPE TALL FESCUE

Mustang is the tall fescue that looks like bluegrass. Its finer texture, darker green color, and wear and drought tolerance have made it the choice for sports field, sod, park, and home lawn use. Mustang is available straight or in TEAM – a three-way turf-type tall fescue blend that also contains Maverick II and Thoroughbred.

Colt
POA TRIVIALIS

Colt is an Oregon produced variety that offers you domestic seed production benefits. It combines superior turf performance and turf quality with genetic adaptation to North American growing conditions. It is dark green, shade tolerant, disease resistant, and very winter hardy. Colt is a vigorous, low-growing variety that has excellent overseeding qualities.

Victory
CHEWINGS FESCUE

For the fourth consecutive year Victory was the highest rated commercially available chewings fescue in the national Fine Fescue Trials. Victory is a low growing, shade tolerant variety that has possibly the darkest green color of any other chewings fescue. It exhibits superior uniformity and disease resistance, too. If you like picking winners, pick Victory.

y of reasons.

CROSSFIRE
TURF-TYPE TALL FESCUE

Crossfire turf-type tall fescue is the only strategy you need for battling a summer ambush of heat and drought. Crossfire is a lower and slower growing variety of tall fescue that exhibits a very dark green color. It combines improved heat and drought tolerance with outstanding turf quality to produce a dense and durable turf. Crossfire's high marks in overall performance during its initial evaluation proved it was ready for the field. Let Crossfire show you how to endure a long summer siege.

SPARTAN
HARD FESCUE

Spartan is a robust, advanced generation of hard fescue that is dark green, leafy, and persistant. It demonstrates excellent cold tolerance and creates attractive, low growing, low maintenance turf. Spartan mixes well with perennial ryegrass, Kentucky bluegrass, and other fine fescues. It is an outstanding component in many shady and low maintenance mixes suited for use on home lawns, parks, and golf course roughs.

AMERICA
KENTUCKY BLUEGRASS

America is a low maintenance Kentucky bluegrass that has a dense dwarf growth habit, dark green color, excellent disease resistance, and good shade tolerance. Perfect in mixes, America is ideal for golf course fairways, sod production, playing fields, and home lawns.

Pickseed also produces the following quality turfgrass varieties: Agram chewings fescue, Jasper creeping red fescue, Jazz perennial ryegrass, Alpine Kentucky bluegrass, Exeter colonial bentgrass, and National creeping bentgrass.

SHORTSTOP
TURF-TYPE TALL FESCUE

Shortstop is the little guy with big benefits. As its name implies, Shortstop is a slower and shorter growing variety of turf-type tall fescue. But don't let its stature fool you. Shortstop is plenty tough. It has heat and cold tolerance, disease resistance and is widely adapted. Shortstop forms a beautiful, dense, uniform turf of finer, darker green leaves.

BRONCO
Kentucky Bluegrass

Bronco is a very wide bladed Kentucky bluegrass that was developed specifically as a mix companion for turf-type tall fescue. While its texture and color gives it the appearance of a tall fescue, the comparison between the two ends there. Bronco is elite Kentucky bluegrass all the way. Its been bred to be less dense so it won't crowd out tall fescue and yet still aggressive enough to fill in and repair damaged areas quickly. That's what makes Bronco ideal for sports turf use.

Pickseed products are distributed throughout North America by quality seed suppliers.

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POCKET GUIDE TO SEED

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SECTION 1

The information on the following pages comes from a variety of sources, among them The Lawn Institute and "Turf Manager's Handbook" by Dr. Bill Daniel and Dr. Ray Freeborg of Purdue University.

For more information on turfgrass species and adaptability, contact the Lawn Institute at P.O. Box 108, County Line Road, Pleasant Hill, TN 38578. To order "Turf Manager's Handbook" and/or other turf reference books, write Book Sales, Edgell Communications, One East First St., Duluth, MN 55802 for an order form.

Seed Generations, Seed Tag Values

Seed	Foundation*	Registered**	Certified		Sod Quality
Tag Color	White	Purple	Blue	Special***	Gold (Wash)
Pure Seed Minimum	95%	95%	95%	92%	97-96%
Other crop Maximum	0.1%	0.1%	0.25%	0.25%	0.1%
Weed Seed Maximum	0.1%	0.3%	0.3%	0.3%	0.02%
Poa annua	none	none	2.0%	?	none
Off Types	none	none	2.0%	4.0%	2.0%
Consumer	grower	grower	consumer		sod grower

** Foundation seed is produced from seed developed by a breeder.*
*** The registered class is often omitted in seed production.*
**** Some cultivars are allowed special labeling due to seed weight.*

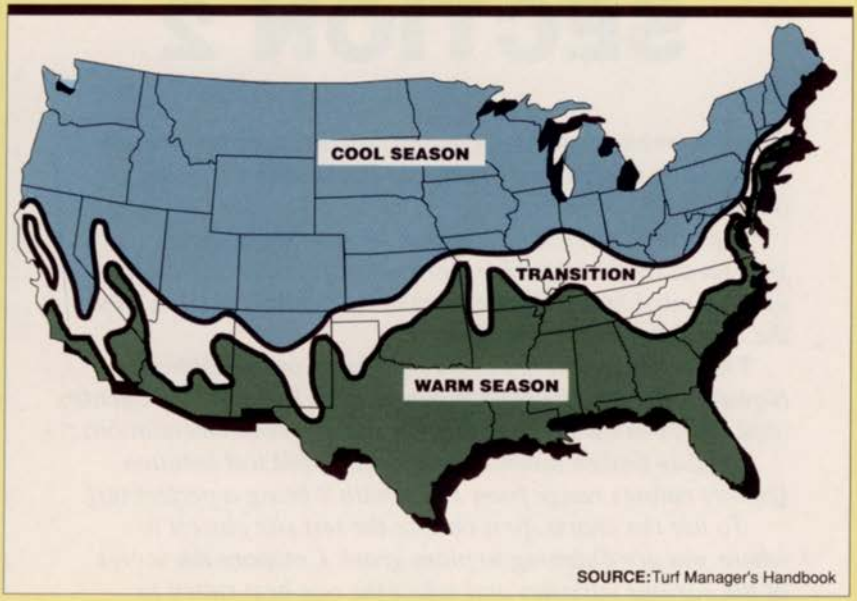
SOURCE: Turf Manager's Handbook

Seed Statistics

Type of Seed	Seeds Per Pound	Seeding Rate Per 1000 Sq. Ft.
Bahiagrass	200,000	6-8 lbs.
Bentgrass	8,500,000	1 1/2 lbs
Bermudagrass	1,800,000	1-1 1/2 lbs
Bluegrass, Kentucky	2,200,000	2 lbs
Bluegrass, Rough	2,500,000	1-1 1/2 lbs
Buffalograss	60,000	3-6 lbs
Carpetgrass	1,300,000	2 lbs
Centipedegrass	400,000	4-6 lbs.
Fescue, Red	600,000	4 lbs.
Fescue, Tall	200,000	6-9 lbs
Redtop	5,000,000	1 lb.
Ryegrass, Perennial	200,000	5 lbs.
Wheatgrass	300,000	3-5 lbs.
Zoysiagrass	1,300,000	2-3 lbs.

SOURCE: The Lawn Institute

Turfgrass Areas of Adaptability



SOURCE: Turf Manager's Handbook

SECTION 2

The information on the following pages comes from results obtained by the National Turgrass Evaluation Program (NTEP).

The NTEP is a self-supporting, non-profit program sponsored by the Beltsville Agricultural Research Center of the United States Department of Agriculture (USDA) and the Maryland Turfgrass Council.

The program will not make variety recommendations. However, the data from tests can be used by extension agents and others in the turf industry for making recommendations.

Data is broken down by mean score and test location. Quality ratings range from 1 to 9 with 9 being a perfect turf.

To use the charts, first choose the test site closest to where you are planning to plant grass. Compare the scores of the various varieties and select the one best suited to your area. Remember that no statistical difference is evident between scores with less than the LSD value's difference. In other words, if one variety scores 6.5 for your area and another scores 6.9 and the LSD value is 0.5, there is no significant difference betweenthe varieties; both would be suited to your area.

All data on the follwing pages is 1990, taken from 1989 test readings, unless otherwise noted.

National director of the NTEP is Kevin Morris, without whose cooperation this section would not have been possible. For further information, write him at Agricultural Research Center West, Bldg. 001, Room 333, Beltsville, MD 20705.

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Loretta • Applause • Ovation • Banner • Chesapeake • Aquara

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MEAN TURFGRASS RATINGS OF COMMERCIALLY AVAILABLE

KENTUCKY BLUEGRASS

National Averages LSD = 0.2

6.5 Blacksburg		
6.4 Princeton 104		
6.3 Midnight	Eclipse	
6.2 America	Asset Aspen	
6.1 Lofts 1757 A-34	Able I Freedom I Glade	
6.0 Somerset Bristol	Chateau Mystic	
5.9 Trenton Wabash Challenger	Monopoly Rugby Cheri	Sydsport Classic Haga

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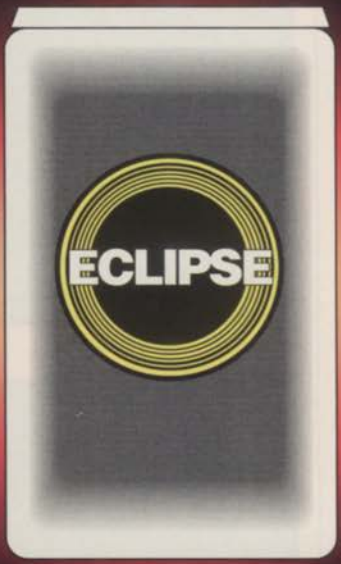
Rated number one in trial at Rutgers, Eclipse Kentucky bluegrass is a lower growing, leafy, dark green turf grass variety that consistently ranks at or near the top for overall turf quality and disease resistance (including Fusarium Blight, Dollar Spot and Red Thread) in USDA tests. It shows good seedling vigor, medium texture and excellent density. Plus, it is recognized as a leader in shade tolerance.



Call your local seed wholesaler and tell him you don't want to be left in the dark. He'll give you the turf grass with the glowing reports -- Eclipse.

ECLIPSE **KENTUCKY BLUEGRASS**

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Peterson Seed Company, Inc.
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Eclipse has been granted U.S. Plant Variety Protection Certificate No. 8000154 and Canadian License No. 2391

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BLUEGRASS *continued*

Cool-Season Areas

Adelphia, NJ LSD = 1.1	Beltsville MD LSD = 0.6	Univ. Park, PA LSD = 0.6
7.7 Princeton 104 7.5 Blacksburg 7.0 Lofts 1757 6.8 Midnight 6.6 Eclipse 6.4 Able I Ikone 6.3 Ram I Julia 6.1 America Asset Glade 6.0 Bristol 5.9 Aspen Chateau	7.9 Blacksburg 7.8 Midnight 7.7 Eclipse America Aspen Lofts 1757 Able I Amazon 7.6 Princeton 104 7.5 Glade Cynthia 7.4 Aquila	6.1 Blacksburg Somerset 6.0 Wabash 5.9 America 5.8 Aspen Cynthia 5.7 Welcome 5.6 Mystic Merit 5.4 Princeton 104 5.3 Baron 5.2 Coventry Victa Aquila
W. Lafayette, IN LSD = 1.2	**E. Lansing, MI LSD = 0.6**	**Carbondale, IL LSD = 1.0**
7.3 Blacksburg Midnight 7.1 Asset 7.0 Somerset Cynthia 6.9 Princeton 104 Eclipse America Able I Wabash Challenger Monopoly Haga Tendos 6.8 Aspen Glade Rugby Barzan	6.8 Princeton 104 6.2 Eclipse 6.1 Challenger 6.0 Midnight Lofts 1757 5.8 Aspen Freedom Bristol Parade 5.7 Destiny 5.6 Glade Wabash Cheri Ram I Dawn Abbey Huntsville	6.8 Mystic 6.6 Wabash 6.5 Blacksburg A-34 6.2 Princeton 104 Eclipse Freedom Trenton Haga Kenblue S.D. Certified 6.I Challenger 6.0 Midnight Aspen Able I Monopoly Harmony Huntsville

BLUEGRASS *continued*

Cool-Season Areas

Brookings, SD LSD = 0.4	Lincoln, NE LSD = 1.0	Manhattan, KS LSD = 0.5
7.6 American Welcome 7.5 Mystic Amazon 7.4 Blacksburge Midnight 7.3 Eclipse Able I Ram I Dawn 7.2 Aspen Classic Cynthia Parade Julia S.D. Certified	6.5 Coventry Estate 6.3 A-34 6.1 Chateau Mystic 6.0 Sydsport 5.9 Asset Aspen Able I Glade Wabash 5.8 Cheri Tendos	7.6 Midnight 7.2 Bristol 7.1 Blacksburg America 7.0 Lofts 1757 Chateau Challenger Cheri Sydsport Coventry Baron Nassau 6.9 Aspen Able I Ram I Gnome

Ritzville, WA LSD = 2.9	Transition	Warm season
	Remington, VA LSD = 0.9	Riverside, CA LSD = 0.4
(dense shade) 7.2 Cynthia 7.0 Cheri 6.8 America Somerset 6.5 Chateau Mystic 6.3 Ram I 6.0 Sydsport Coventry 5.8 Challenger 5.7 Wabash Aquila Amazon 5.5 A-34 Able I Freedom Parade Barzan	5.8 Monopoly Sydsport Coventry 5.7 Midnight 5.6 Aspen Suffolk 5.4 Freedom Chateau Rugby Estate Aquila 5.3 Trenton Dawn 5.2 America Classic	6.l Midnight 6.0 Bristol 5.9 Aspen Challenger Classic Suffolk Dawn Tendos 15 tied with 5.8

MEAN TURFGRASS RATINGS OF COMMERCIALLY AVAILABLE

TALL FESCUE

National Averages LSD = 0.1

6.4	
Hubbard 87	
6.3	
Guardian	Shenandoah
6.2	
Crossfire	
6.1	
Avanti	Aztec
Amigo	Monarch
Cochise	
6.0	
Tribute	Chieftain
Eldorado	Bonanza
Phoenix	Maverick II
Thoroughbred	Olympic II
Rebel II	Wrangler
Apache	
5.9	
Jaguar II	Ledgend
Shortstop	Jaguar
Silverado	Trailblazer
Mesa	

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- tolerance to heat and drought
- resistance to disease
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- year-round beauty and performance

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TALL FESCUE *continued*

Cool-Season Areas

New Brunswick, NJ LSD = 0.7	Beltsville, MD LSD = 0.4	E. Lansing, MI LSD = 0.4
6.7 Monarch 6.4 Crossfire 6.3 Aztec 6.2 Cochise 6.1 Hubbard 87 Guardian Elderado Silverado 6.0 Shenandoah Avanti Tribute 5.9 Amigo	8.0 Guardian Eldorado 7.9 Hubbard 87 Shenandoah Aztec 7.8 Monarch Shortstop Siverado 7.7 Crossfire Amigo 7.6 Avanti Cochise Bonanza	6.3 Cochise Eldorado 6.1 Hubbard 87 Avanti Aztec Tribute 6.0 Crossfire Maverick II Wrangler Jaguar II Shortstop Cimarron
Ithaca, NY LSD = 0.7	**Lincoln, NE LSD = 1.3**	**Marysville, OH LSD = 0.7**
5.1 Hubbard 87 5.0 Amigo Monarch 4.9 Guardian Shenandoah Phoenix Bonanza Jaguar 4.8 Wrangler 4.7 Cochise Rebel II Legend Olympic 4.6 Aztec Tribute Chieftain Rebel Falcon	7.1 Guardian 6.8 Hubbard 87 6.6 Avanti 6.5 Apache 6.3 Thoroughbred Legend 6.2 Shenandoah Olympic 6.0 Amigo Cochise Monarch Eldorado Phoenix Maverick II Shortstop Sundance	7.7 Chieftain Bonanza Jaguar 7.5 Shenandoah Apache 7.3 Thoroughbred Wrangler 7.2 Hubbard 87 Guardian Crossfire Monarch Tribute Phoenix Rebel II Legend Rebel Cimarron Finelawn 5GL Adventure Falcon Willamette Aquara

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Species	Variety		Seeding rate 1000/sq. ft.	Nitrogen req'ment	Drought tolerance
Turf-Type Kentucky Blue	**Challenger** **Columbia** **Blacksburg**	**Midnight** **Galaxy blend**	2-3 lbs.	Medium	Good
Common Ky.	**Voyager**		2-3 lbs.	Low to Medium	Very good
Turf-Type Perennial Ryegrass	**Birdie II** **Charger** **Citation II** **Manhattan II** **Omega II**	**Remington** **Saturn** **Alliance blend** **CBS II blend** **246**	4-5 lbs.	Medium to high	Very good
Hard Fescue	**Aurora**		3-4 lbs.	Low	Very good
Chewings Fescue	**Shadow**		4 lbs.	Low	Good
Sheeps Fescue	**Bighorn**		4 lbs.	Low	Very good
Creeping Fescue	**Flyer** **Fortress** **Shademaster**		4 lbs.	Low	Good
Tall Fescue	**Apache** **Bonanza** **Eldorado** **Monarch** **Murietta**	**Olympic** **Silverado** **Triathalawn blend**	6-10 lbs.	Medium	Excellent
Creeping Bentgrass	**Penncross** **Penneagle** **PennLinks**		1 lb.	Low to medium	Fair
Creeping Bentgrass Blend	**Pennway** **PennTrio**		1 lb.	Low to medium	Fair

Note: These are generalizations. For specific information, call or write Turf-Seed for tech sheets on particular varieties.

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...s, Home lawns; North	Athletic fields, Parks, Home lawns; Trans. Zone	Parks, Home lawns; South/O'seed dorm. bermuda	Baseball fields; North	Croquet, tournament, Lawn bowls, Bocce; North	Football, Soccer, LaCrosse fields; North	Golf course fairways; North	Golf greens, North & Transition	Golf greens, Southern overseeding	Golf course roughs; North	Golf course tees; North	Polo fields; North	Tennis courts; North	Volleyball, Badminton; North	**Shade tolerance**	**Cold tolerance**
*	*	*	*	*	*	*	*	*	*	*	*	*			
2	3	1	3	1	2	X	3	2	2	1	3	1		Fair to good	Very good
2	3	2	X	2	3	X	X	1	X	1	X	2		Fair	Very good
2	1	1	1	1	1	3	1	2	1	1	1	1		Fair to good	Fair to good
3	X	3	X	3	X	X	X	1	X	X	X	3		Very good	Very good
X	2	3	2	3	2	3	2	1	3	2	3	2		Very good	Very good
3	X	3	X	3	X	X	X	1	X	X	X	3		Very good	Very good
3	3	3	X	3	3	X	3	1	X	3	X	X		Very good	Very good
1	3	1	X	1	X	X	X	1	X	1	X	3		Good	Good
X	X	X	1	X	1	1	1	X	1	X	1	X		Fair	Excellent
X	X	X	X	X	1	X	1	X	X	X	X	X		Fair	Excellent

= Excellent in blends or mixtures 2 = Good in blends & mixtures
= Fair. Use only in mixture X = Not recommended for sports turf

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TALL FESCUE *continued*

Cool-Season Areas

Long Island, NY LSD = 0.8	Post Falls, ID LSD = 0.9	Hubbard 87 LSD = 0.6
5.9 Hubbard 87	7.8 Shenandoah	7.1 Hubbard 87
5.7 Cochise	7.7 Cochise	6.9 Guardian
5.5 Amigo	Mesa	6.8 Avanti
5.4 Eldorado	7.6 Hubbard 87	Silverado
Chieftain	Amigo	6.6 Shenandoah
5.3 Guardian	Phoenix	Monarch
Phoenix	7.4 Guardian	Wrangler
5.2 Crossfire	Wrangler	6.5 Cochise
Wrangler	7.3 Crossfire	Aztec
5.1 Avanti	Thoroughbred	Olympic II
Rebel II	Chieftain	Shortstop
Olympic II	Bonanza	Trailblazer
Jaguar II	Jaguar	6.4 Crossfire
Legend	7.2 Aztec	Amigo
Cimarron	Rebel II	Chieftain
Arid	Carefree	

Warm-Season Areas

Santa Ana, CA LSD = 0.2	Griffin, GA LSD = 0.7	Dallas, TX LSD = 0.9
6.2 Rebel II	7.7 Crossfire	(high mowing)
6.1 Hubbard 87	Olympic II	5.1 Taurus
Guardian	7.6 Avanti	Twilight
Shenandoah	Cochise	5.0 Crossfire
Crossfire	Monarch	Trailblazer
Avanti	Phoenix	4.9 Olympic II
Amigo	7.5 Guardian	Rebel
Aztec	Tribute	4.8 Hubbard 87
Monarch	Jaguar II	Amigo
Tribute	Mesa	Rebel II
Phoenix	7.3 Hubbard 87	Trident
Olympic II	Aztec	4.7 Apache
Wrangler	Rebel II	Jaguar
Silverado	Jaguar	Jaguar II
Legend	Titan	Barnone
Jaguar		
Murietta		

BONANZA

TALL FESCUE TURF-TYPE

Still the Tall Fescue of Choice Among Discriminating Turfgrass Users!

A proven performer on home lawns, sod farms, athletic fields or wherever attractive, tough, reduced maintenance turf is required. With its exceptional dark green color, heat and drought tolerance and disease resistance, BONANZA is a year in, year out performer. BONANZA sets a standard by which others are compared.

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Tall Fescue "Dwarf Type"

The Reduced Maintenance Approach to a Well-Groomed Lawn

When you want all the advantages of a tall fescue but want improved aesthetic qualities, CREW-CUT tall fescue "dwarf type" is the answer. The deep green color and high leaf density of CREW-CUT combine for a thick, luxurious turf with all the hardy characteristics that have made turf-type tall fescues the fastest growing segment of the turfgrass market.

Vantage

PERENNIAL RYEGRASS

Beauty and Durability for a Superior View!

All the outstanding qualities you expect from a premium perennial ryegrass plus unexcelled resistance to stem rust. Used alone or in combination with other ryegrasses, bluegrasses or fine fescues, VANTAGE is a solid performer with a wide range of uses and areas of adaptation.

magnum BRAND

Perennial Ryegrass Mixture

MAGNUM BRAND is a blend of elite perennial ryegrasses, including VANTAGE, which offer the genetic diversity only available in a blend. Ideal for winter overseeding in warm climates, or permanent lawns in more temperate regions, MAGNUM BRAND offers tremendous diversity and performance.

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TALL FESCUE *continued*

Transition Zone

Urbana, IL LSD = 0.9	Fayetteville, AR LSD = 1.2	Santa Clara, CA LSD = 0.5
7.8 Shenandoah 7.7 Cochise Mesa 7.6 Hubbard 87 Amigo Phoenix 7.4 Guardian Wrangler 7.3 Crossfire Thoroughbred Chieftain Bonanza Jaguar 7.2 Aztec Rebel II Carefree	6.8 Crossfire 6.7 Guardian 6.4 Twilight 6.3 Cochise Arid 6.2 Amigo 6.1 Apache 6.0 Shenandoah 5.9 Olympic II 5.8 Monarch Rebel 5.7 Thoroughbred Olympic	7.2 Murietta 7.0 Shenandoah Silverado 6.9 Hubbard 87 Monarch 6.8 Guardian Aztec Wrangler 6.7 Crossfire Amigo Olympic II Traiblazer Barnone
St. Louis, MO LSD = 0.6		
8.0 Twilight 7.0 Hubbard 87 6.9 Shenandoah Cochise 6.8 Guardian 6.7 Legend 6.6 Avanti Bonanza 6.5 Crossfire Eldorado Thoroughbred Mesa 6.4 Aztec Wrangler Jaguar Sundance		

We could say a lot about

New AVANTI

Drought-Tolerant Dwarf Tall Fescue from Warren's® Turf Professionals

. . . but this says it all!

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS AT THIRTY-SEVEN LOCATIONS IN THE UNITED STATES
1989 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

	AR1	AZ1	CA1	CA2	CA3	GA1	IA1	ID2	IL1	IN1	IN2	KS1	KS2	MD1	VA4	WA4	MEAN
*HUBBARD 87	5.1	5.9	6.9	6.1	6.9	7.3	6.9	6.6	7.6	7.6	4.7	7.5	7.4	6.8	6.3	7.3	6.4
*PICK 84SPS	6.7	5.8	6.8	6.1	6.9	7.5	6.7	6.6	7.4	7.2	4.4	7.5	7.6	6.6	6.3	7.0	6.3
*PE-73	6.0	5.9	7.0	6.1	6.9	6.9	7.0	6.8	7.8	7.1	4.7	7.3	7.7	6.7	6.6	6.0	
*PICK TF9	6.8	5.6	6.7	6.1	6.9	7.7	5.9	6.8	7.3	6.8	4.3	7.7	8.0	6.3	5.9	5.3	
***AVANTI**	4.5	5.8	6.6	6.1	6.9	7.6	6.2	6.5	7.0	6.7	4.4	8.0	7.6	6.4	6.2	6.3	6.1

* COMMERCIALLY AVAILABLE VARIETY

NOTE: Warren's new ***AVANTI*** ranked 5th for overall turfgrass quality among 65 cultivars tested in the 1989 National Turfgrass Grass Trials Report.

AVANTI*, the turfgrass of tomorrow * is available from Warren's *today

- ***Faster* fill-in after germination.**
- ***Earlier*, fuller turf formation**
- ***Finer* leaf structure.**
- ***Lower* growth habit.**
- ***Excellent 'bright' dark-green color that rivals Bluegrass!***

plus . . .

Less watering!	**More uniform density!**
Less fertilizing!	**More root development!**
Less mowing!	**More drought tolerance!**
Less summer stress!	**More shade and wear tolerance!**

* ***AVANTI*** Premium Dwarf Tall Fescue seed will be available for shipment, beginning in late August, 1990. This is the same premium *AVANTI* seed that Warren's uses to grow new *AVANTI* at its own sod production facilities across the U.S.

Please note: More than half of this year's *AVANTI* seed production has already been reserved by Premium Sod Growers, Seed Blenders, and Professional Landscapers. *We urge you to contact your seed dealer to place your orders as soon as possible.*

For information, call 1 800 828-8873 Toll Free. (8 am to 4 pm Pacific Coast Time).

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SEED & SPECIAL PRODUCTS DIVISION
Suisun City, California 94585
Corporate Headquarters Crystal Lake, Illinois 60014

Circle No. 814 on Reader Inquiry Card

MEAN TURFGRASS RATINGS OF COMMERCIALLY -AVAILABLE

PERENNIAL RYEGRASS

National Averages LSD = 0.2

6.4	
Saturn	
6.3	
SR 4100	
6.2	
Pennant	Manhattan II w/endophyte
SR 4000	Commander
Dimension	
6.1	
Palmer	Dasher II
Pick 715	Fiesta II
Riviera	Repell
Charger	
6.0	
Blazer	
Omega II	Goalie
5.9	
Manhattan II	
Citation II	Birdie II
Caliente	Competitor
Prelude	Gator
PSU-333	Allaire

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HUNTSVILLE
KENTUCKY BLUEGRASS

FLYER
CREEPING RED FESCUE

TRIPLE PLAY
ELITE
PERENNIAL RYEGRASS BLEND

Stallion
TURF TYPE
PERENNIAL RYEGRASS

sunrise

Two Forty Six
TURF TYPE
PERENNIAL RYEGRASS

PEBBLE BEACH
Perennial Ryegrass

Chateau
PREMIUM
KENTUCKY BLUEGRASS

CHEYENNE
TURF TYPE
BERMUDAGRASS

Circle No. 807 on Reader Inquiry Card

RYEGRASS *continued*

Cool-Season Areas

Columbia, MO LSD = 0.7	N. Brunswick, NJ LSD = 1:0	Carbondale, IL LSD = 1.5
7.5 SR 4100 7.3 Saturn Pennant Pick 715 7.2 Charger 7.1 Dasher II 7.0 Manhattan II w/endo Riviera 6.9 Commander Barrage 6.8 Goalie Regal	6.7 SR 4000 6.5 Dimension 6.4 Aquarius 6.3 SR 4100 Pick 715 6.2 Saturn Riviera 6.0 Pennant Manhattan II w/endo Dasher II Blazer II 5.9 Prelude Belle	7.9 SR 4100 7.7 Pennant Charger Goalie 7.6 Riviera 7.5 Saturn 7.4 PSU-333 7.3 SR 4000 Caliente 7.2 Commander Palmer
Ithaca, NY **LSD = 0.7**	**Brookings, SD** **LSD = 0.5**	**Corvallis, OR** **LSD = 0.4**
5.2 Pennant Fiesta II Barcredo 5.1 SR 4100 Dasher II Omega II 5.0 SR 4000 Manhattan II Rodeo 4.9 Manhattan II w/endo Dimension Repell PSU-333 Competitor Gator Lindsay Tara Rival Pennfine Nova	7.2 Fiesta II Aquarius 7.1 Belle Barcredo 7.0 SR 4000 Charger Competitor Ovation 6.9 Commander Riviera Blazer II Goalie Lindsay Runaway Pennfine Derby Brenda Yorktown II Diplomat	7.4 Aquarius 6.9 Manhattan II w/endo Dimension Dasher II Fiesta II Repell Tara 6.8 SR 4000 Riviera Charger Blazer II Omega II Manhattan II Competitor Lindsay Rodeo

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Other Zajac Performance Seed varieties include Jaguar II and Emperor Tall Fescues, Omega II Perennial Ryegrass,

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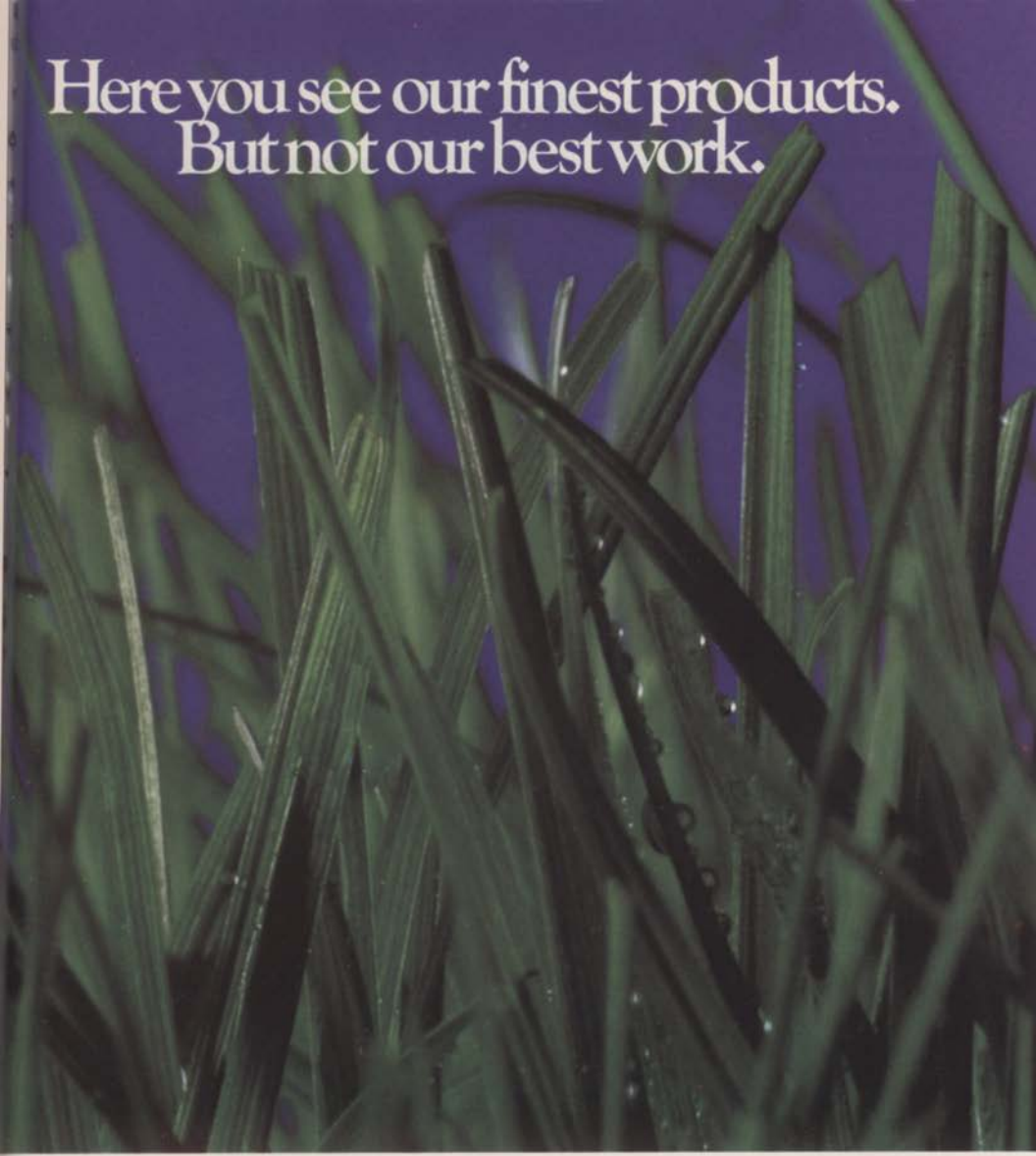
RYEGRASS *continued*

Cool-Season Areas

Washington, DC LSD = 2.0	Post Falls, ID LSD = 1.0	Lexington, KY LSD = 0.7
6.4 Palmer 5.4 Blazer II 5.3 Repell Gator Allaire Diplomat Manhattan 5.0 Caliente 4.8 Yorktown II 4.7 Saturn Commander Prelude Lindsay Rodeo Sheriff	7.3 Saturn Aquarius 7.0 Blazer II 6.9 Fiesta II 6.8 Pennant Riviera Omega II 246 Tara 6.7 SR 4100 Rodeo 6.6 Dimension Brenda	6.6 Repell Citation II 6.5 SR 4100 Riviera 6.4 SR 4000 Commander Blazer II Omega II Barcredo 6.3 Dimension Barrage 6.2 Saturn Pennant Ranger
Wichita, KS LSD = 1.1	**E. Lansing, MI LSD = 0.5**	**Univ. Park, PA LSD = 0.8**
7.9 Saturn Regal 7.4 Manhattan II w/endo. Dasher II Patriot 246 7.3 Commander 7.2 Riviera Manhattan II Belle Delray 7.1 Dimension Charger Citation PSU-333	5.8 Saturn 5.6 Dimension 5.5 Allaire 5.4 SR 4100 Palmer Manhattan II Regal Tara Belle 5.3 Pennant SR 4000 Riviera Charger Dasher II Omega II	(low mowing) 6.9 Commander 6.8 Saturn 6.7 Manhattan II w/endo 6.6 SR 4100 Dimension 6.4 Pennant SR 4000 Competitor 6.3 Nova Derby 6.2 Pick 715 Dasher II Repell PSU-333 Allaire Patriot Rodeo



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MEAN TURFGRASS RATINGS OF COMMERCIALLY AVAILABLE

BERMUDAGRASS

National Averages LSD = 0.2

7.0 Tifway II	
6.8 Tifway	Tifgreen
6.4 Tufcote	
6.2 Texturf 10	
6.1 Midiron	
5.7 Vamont	
5.2 Numex Sahara	
4.8 Guymon	

Fine Fescue Defined

What are Fine Fescues and why are they so important to turf managers?

Our Fescue turfgrasses are part of most every park, golf course, industrial campus, athletic field, condominium commons and home lawn from the transition zone, Northward.

But, many people are not aware of that. Perhaps we are the most overlooked turfgrass in existence.

We feel that Fine Fescues are the best turf investment a grounds manager can make. And, we'd like to point out *why.*

Fine Fescues are *real* grass. And, as with all living things, there is give and take. Sure, our Fescues take water and some maintenance, but they are better *givers.* Our natural grass turns noxious gases into oxygen and is a natural air conditioner for turf users.

We feel that while artificial turf has its place on locker room floors, it has no business where *real* people work, play and relax. Our grass is just *naturally* more refreshing.

Our Chewings (Festuca rubra commutata) and creeping red (Festuca rubra rubra) Fescues are rather unique when compared with other turfgrass species. Although they have most of the features of other cool season grasses, Fescues have several distinct benefits worth noting.

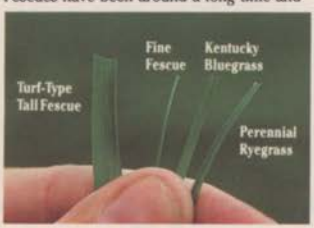
Fine Fescues are low maintenance. Our varieties require less fertilizer and water than other species. That's a big *plus* at today's water, fertilizer and manpower prices.

Fine Fescues fare well around trees. It seems our grass doesn't need as much sunlight, water and nutrients as other turfgrass species. Because Fescues don't compete with trees for these important elements, they're called *shade grass.* Our Fescues don't creep into flower beds, nor crowd out other species in a mixture.

And, because they're Oregon grown, our Fescues germinate, adapt and perform better than imported types.

You'd expect to pay a fortune for such a turfgrass, but Fescues are quite reasonable

Why don't Fescues cost a great deal? Fine Fescues have been around a long time and have been changed very little. Why mess with a good thing? While other former "pasture" species are coming closer to looking like our old standard; receiving notoriety for their "improvements" and enjoy the price increases associated with the word "new," our Fescues have continued what they do best . . . support the up-and-comers. But then, Fine Fescues were meant to be stepped on.



Fine Fescues are Ideal for Recreation, Sports and Leisure

Not only do Fine Fescues excel alone or in perennial ryegrass/Kentucky bluegrass mixtures on horizontal playing surfaces; Fescues are excellent for low maintenance areas like berms, roadside banks, ski slopes and hilly spots that don't retain moisture. So, you see, Fescues are ideal all-around grasses for *all around* your recreation and sports facility. Their low maintenance requirements offer *turf managers* a chance for a little more leisure . . . and there's nothing wrong with that.

For a series of nine tech sheets on Oregon grown Chewings and creeping red Fescues, call or write:

Oregon Fine Fescue Commission
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BERMUDAGRASS *continued*

Transition zone

Beltsville, MD LSD = 0.6	Blackstone, VA LSD = 0.5	Virginia Beach, VA LSD = 0.4
7.3 Tifgreen 7.0 Tufcote 6.8 Tifway II 6.6 Tifway Texturf 10 6.5 Midiron 6.1 Vamont 4.9 Numex Sahara 4.7 Guymon 3.8 Ariz common	6.7 Tifgreen 6.4 Tifway II Tifway 6.3 Texturf 10 6.5 Midiron 6.1 Vamont 5.8 Tufcote 5.4 Midiron 4.9 Numex Sahara 4.8 Guymon 4.3 Ariz. common	7.5 Tifgreen 7.3 Tifway II Tifway 7.2 Texturf 10 6.9 Tufcote 6.7 Numex Sahara 6.5 Midiron 6.3 Vamont 5.8 Ariz. common 5.3 Guymon
Silver Spring, MD **LSD = 0.9**	**Wichita, KS** **LSD = 0.6**	**Springfield, MO** **LSD = 1.6**
7.0 Tifway II 6.9 Tifway 6.8 Tifgreen 6.4 Midiron 6.3 Tufcote 5.8 Texturf 10 Vamont 5.2 Numex Sahara 5.1 Guymon 4.2 Ariz. common	8.6 Midiron 8.0 Tifway II Tifgreen Tufcote 7.9 Texturf 10 7.7 Tifway 6.7 Vamont 6.2 Guymon 6.0 Numex Sahara 5.2 Ariz. common	6.0 Vamont 5.7 Tufcote 5.3 Midiron 5.0 Tifway II 4.7 Guymon Ariz. common 4.3 Numex Sahara Tifgreen 4.0 Tifway Texturf 10

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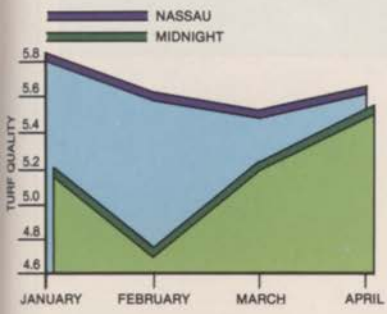

Winter color retention
and early season color difference between Nassau and another leading bluegrass, Midnight.

U.S.D.A. Trial 1987 Data

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BERMUDAGRASS *continued*

Transition zone

Gainesville, FL LSD = 0.5	Miss. State, MS LSD = 0.5	Fayetteville, AR LSD = 0.6
7.0 Tifway II 6.9 Tifway Tifgreen 6.8 Tufcote 6.5 Texturf 10 6.3 Midiron 6.2 Vamont 5.9 Numex Sahara Ariz. common 5.8 Guymon	7.3 Tifway II 7.1 Rifway 6.9 Tifgreen 5.6 Tufcote 5.3 Texturf 10 4.7 Midiron 4.5 Vamont 3.3 Ariz. common 3.2 Numex Sahara 2.7 Guymon	8.5 Tifway II 8.3 Tifway 7.7 Tifgreen 7.6 Tufcote 7.2 Texturf 10 6.4 Midiron 5.8 Numex Sahara 5.6 Ariz. common 5.5 Vamont 4.6 Guymon

Cleveland, TX LSD = 1.3	Tuscon, AZ LSD = 0.8	Irvine, CA LSD = 0.4
8.0 Tifway II 7.7 Tifgreen 7.3 Tifway 5.7 Tufcote Midiron 4.7 Texturf 10 Numex Sahara 4.0 Vamont 3.3 Guymon 3.0 Ariz. common	7.8 Tifway 7.7 Tifway II 6.9 Tifgreen 6.3 Midiron 6.2 Tufcote 5.8 Texturf 10 Vamont 5.4 Guymon 5.1 Numex Sahara 4.8 Ariz. common	6.4 Tifway II 6.3 Tifway 5.8 Texturf 10 5.7 Midiron 5.4 Tifgreen 5.1 Tufcote Vamont 4.9 Numex Sahara 4.7 Guymon 4.6 Ariz. common

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